

4029

Form 804

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

State: *Alaska*

11-5613

DESCRIPTIVE REPORT.

*Hyd.* Sheet No. *4029*

LOCALITY:

*Post Chatham,*

*Cook Inlet.*

*Aug. - Sept.*

*1918,*

CHIEF OF PARTY:

*Eoline R. Hand.*

DESCRIPTIVE REPORT.

**4029**

To accompany hydrographic sheet (No. 1,) Port Chatham, Cook Inlet, Alaska.  
(surveyed August-September, 1918.)

Eoline R. Hand, H. & G. Eng'r.  
Chief of Party.

This investigation was made in order that vessels might with safety come in to the wharf shown, for the purpose of loading chrome ore. Whitney and Lass of Juneau are making an extensive development of this chrome property, but up until completion of this survey were having difficulty in shipping their product. As a further aid I established a range, and also a beacon (signal ROCK is whitewashed). My Descriptive Report of topographic sheet gives more details about these, and supplies considerable information about the harbor, the wharf, and the mining activities.

The bottom is remarkably even: no new dangers were found excepting the rock (awash at low tide) shown off signal ROCK (beacon). There is deep water close to. Sixteen feet is shown along the face of wharf.

All of this area has been dragged well inside of where a vessel would be likely to venture. From between Kelp and Claim points to the waters off the dock the drag was carried unusually close to the bottom, making certain that it is safe for a vessel to use this wharf when the tide serves.

A bunch of shoal soundings will be noted south of Claim Point outside of the kelp patch. The drag has come up to this shoal from the east; and has passed south of it, just clearing the 39' sounding seen outside of "100E" in red. I tried a number of times to pass the wire over this spot, but bad weather set in and stopped further operations, so I am unable to say if there is less water there than the soundings indicate. However, it is well out of the way of a vessel coming in to the wharf. The spot is not marked by kelp.

On August 23rd. I issued an emergency blueprint chart of this cove. A copy was sent to this Office, and the original tracing is now with the Seattle Inspector. Additional soundings secured on the above shoal since first issue have since been placed on the tracing, and appear on subsequent issues from the Inspector's office.

No practical difference will be found between the soundings on the blueprints and those plotted hereon.

*Eoline R. Hand*

Hydrographic & Geodetic Engineer.

LIST OF STATISTICS  
 To accompany hydrographic sheet No. 1  
 Port Chatham, Cook Inlet, Alaska.  
 Surveyed in August and September, 1918.

*Oliver R. Lard*  
 Chief of Party.

Date 1918		Letter	Vol.	Positions	Soundings	Miles, Statute.	Boats
August	10.	A	1	133	254	3.7	Dory
"	12	B	1	189	356	6.4	"
"	13	C	1	143	264	5.4	"
"	14	D	1	61	73	2.4	"
"	15	E	1&2	156	244	5.7	"
"	19	F	2	47	99	2.0	"
"	24	G	2	19	19	Detached Sdgs.	"
Sept.	14	H	2	38	64	2.0	"
"	23	J	2	16	16	Detached Sdgs.	"
Totals				807	1389	27.6	

ADDRESS THE SUPERINTENDENT  
U. S. COAST AND GEODETIC SURVEY

AND REFER TO NO. 41-ACC

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON May 9, 1919.

HYDROGRAPHY ETC., (HT)

CHARTS

FIELD RECORDS (C)

Division of Hydrography and Topography: *HCH*

Division <sup>of</sup> Charts:

Tidal reductions have been approved in  
2 volumes of Soundings records for

HYDROGRAPHIC SHEET 4029

Port Chatham, Cook Inlet, S. W. Alaska.  
Eoline R. Hand in 1918.

Plane of reference is  
Mean lower low water, reading

6.5 ft. on staff at Port Chatham.

*At Rice*  
Chief, Section of Tides  
and Currents.



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

HYDROGRAPHIC SHEET NO. (1) **4029**

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. \_\_\_\_\_

State . . . **Alaska** . . . . .

General locality . . **Cook Inlet - Port Chatham** . . . . .

Locality . . . ~~Port Chatham~~ **Chum Bay** . . . . .

Chief of party . . **Eoline R. Hand** . . . . .

Surveyed by **Aida W.D. Patterson (in charge), E.M. Wilbur, J.D. Crichton.**

Date of survey . **August - September 1918.** . . . .

Scale **1 : 5000** . . . . .

Soundings in . **fath** . . . . .

Plane of reference . **Mean Lower Low Water** . . . . .

Protracted by **J.D. Crichton** Soundings in pencil by **J.D. Crichton**

Inked by **J. T. Torrey**. Verified by **J. T. Torrey** . . .

Records accompanying sheet (check those forwarded):

Des. report,   1   Tide books,        Marigrams,   1   Boat sheets,

  2   Sounding books,        Wire-drag books,        Photographs.

Data from other sources affecting sheet . . . . .

Remarks:

Staff used was West of wharf where indicated. Datum on it 6.5'  
See Leveling Record, and Tide Book, Hand, 1918. Port Chatham, for method  
of translating datum from B.M. at head of port to our staff.  
E.R.H.

9x

3973  $\frac{1}{2}$

4029  $\sqrt{\frac{1}{2}}$

Hydrographic Sheet No. 4029.

Port Chatham; Cook Inlet; Alaska.

This Sheet has been carefully verified and found to be carefully and accurately done both as to the survey and the development of the sheet.

John D. Torrey.

Hydrographic sheet 4029

Port Chatham, Alaska

by E. R. Hand in 1918

The survey is a creditable piece of work and the plotting was accurately done. The 31 and 38 foot spots south of Clavin Pt. are not fully developed. As the drag was not passed over these spots, they should be investigated further when opportunity offers.

The work is subject to the following criticisms:

The descriptive report fails to note date of instructions and the list of hydrographic signals is not complete.

The same time interval was maintained between soundings in both shoal and deep waters.

The outline of rocks should be heavier.

The records are faulty in the following respects:

In no case was the leadline tested at beginning of day's work.

Positions were not numbered on right hand page.

In no case was the boat's head or course given.

In no case was character of sounding apparatus or weight of sinker given.

The line following that on which a position was taken, was not left blank, as directed by § 304 of General Instructions.

E. P. Ellis

March 8, 1920